

**WAYNE N. WITZELL**  
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#### PROFESSIONAL EMPLOYMENT:

##### Fishery Biologist (Research) NOAA-NMFS-SEFSC

12/91 – Present: Responsible for conducting research on the distribution and ecology of juvenile turtles in the 10,000 Islands, Florida, <http://199.242.233.4/SeaTurtles/Turtleposter2000.html>. Serve on the I.U.C.N. Sea Turtle Specialist Group and also serve as Annual Sea Turtle Symposium Publications Technical Editor: ([http://www.nmfs.noaa.gov/prot\\_res/PR3/Turtles/symposia.html](http://www.nmfs.noaa.gov/prot_res/PR3/Turtles/symposia.html)).

##### Fishery Biologist (Research) NOAA-NMFS-SEFC

12/86 - 12/91: Responsible for conducting research projects on the life history and fishery of recreationally caught Atlantic billfish. Major duties included designing and conducting surveys for recreationally caught billfish throughout the western north Atlantic Ocean. Assembled, analyzed, and interpreted billfish data and produced reports on the distribution, relative abundance, and life history parameters.

##### Fishery Biologist (Research) NOAA-NMFS-SEFC

8/83 - 12/86: Major duties consisted of determining the incidental catch and mortality of threatened and endangered sea turtles in the southeastern U.S., reviewed sea turtle documents and planned sea turtle research and management activities throughout the western Atlantic Ocean. Responsible for producing publications and reports on the distribution, relative abundance, and life histories of sea turtles. Technical Team Member to the Western Atlantic Turtle Symposium, aiding Caribbean countries in survey and hatchery methodologies, and basic research and conservation programs.

Fishery Biologist (Research) NOAA-NMFS-SEFC

5/78 - 8/83: Major duties consisted of preparing Fishery Management Plans for the southeastern U.S. Reviewed proposed research needs derived from the Management Plans for continuity with SEFC research programs. Provided information for use in formulating U.S. policy and management strategies for fishery and sea turtle resources in the southeastern U.S. Assembled, reviewed, and analyzed published and unpublished data, and prepared reports on the status of the resources for which the SEFC had responsibilities.

Fishery Officer (U.S. Peace Corps) Kingdom of Tonga, South Pacific

10/75 - 10/77: Major duties consisted of surveying the marine resources of the Ha'apai Island group. The data collected included: fish and invertebrate species, geographic and depth distributions, and seasonalities of major food species. Surveyed local fishing and processing methods and recommended improvements to the fishermen and to the Chief Fisheries Officer for future extension work. Supervised all Government loans to the fishermen in the islands and assisted UNDP and FAO fisheries experts during numerous expeditions throughout the islands.

Laboratory Supervisor AEO Systems, Lantana, FL

1/75 - 9/75: Major duties consisted of conducting pathology and disease control of channel catfish raised in intensive culture tanks (500,000 fish/tank). Specific duties included the following: daily microscopic examination of specimens for pathogens, water quality analysis, and the selection of the proper chemical/dosage/frequency for fish treatments. Also responsible for the collection, recording, and analysis of all pathology data for use by the facility General Manager.

Fishery Officer (U.S. Peace Corps) Western Samoa

7/71 - 9/73: Major duties included studying marine turtle populations nesting at and migrating through the Samoa Islands. Responsible for designing, constructing, and operating a sea turtle hatchery and conservation program. Prepared reports on sea turtles and other inshore marine resources for presentation to annual FAO sponsored fisheries Meetings. Taught fisheries at Alafua College of Tropical Agriculture.

Fisheries Scientist (student) Woods Hole Oceanographic Institution

6/65 - 7/71 full and part-time as education permitted: Major duties included the collection and identification of meso-pelagic fishes (Gonostomatidae). Performed other basic laboratory and at-sea duties as assigned by Chief Scientist.

**PUBLICATIONS:**

Witzell, W.N. 1972. Gonostomatidae. Check List of the Fishes of the North-Eastern Atlantic and Mediterranean. U.N.E.S.C.O. Vol. 1:114-122.

Witzell, W.N. 1972. To Live or Not to Live. Int. Turtle Tortoise Soc. J. 6:32-35.

Witzell, W.N. 1974. The conservation of the hawksbill turtle in Western Samoa. South Pacific Bull. 4:33-37.

Witzell, W.N. 1978. *Apolectus niger* (family Apolectidae); Synonymy and systematics. Bull. Indian. Soc. Ichthyol. 1:72-82.

Witzell, W.N. 1980. Growth of captive hawksbill turtles, *Eretmochelys imbricata*, Bull. Mar. Sci. 30:909-912.

Witzell, W.N. 1981. Predation on juvenile green sea turtles, *Chelonia mydas*, by a grouper, *Promicrops lanceolatus* (Pices; Serranidae) in the Kingdom of Tonga, South Pacific. Bull.

Mar. Sci. 31:935-936.

Witzell, W.N. 1982. Observations on the green sea turtle *Chelonia mydas* in Western Samoa. *Copeia* 1982:183-185.

Witzell, W.N. 1983. Synopsis of biological data on the hawksbill turtle, *Eretmochelys imbricata*, (Linnaeus, 1776). *FAO Fish. Synop.* 137:78p.

Witzell, W.N. 1984. Maintaining sea turtles in public aquaria. *Amer. Assoc. Zool. Parks, Ann. Confer. Proc.* 1984:480-485.

Witzell, W.N. 1984. The incidental capture of sea turtles in the Atlantic United States Fishery Conservation Zone by the Japanese tuna longline fleet, 1978-1981. *Mar. Fish. Rev.* 46:56- 58.

Witzell, W.N. 1985. The incidental capture of sharks in the Atlantic Fishery Conservation Zone reported by the Japanese tuna longline fleet. *NOAA Tech. Rept. NMFS-31:21-22.*

Witzell, W.N. 1985. Variation of size at maturity of female hawksbill turtles, *Eretmochelys imbricata*, With speculations on life-history tactics relative to proper stock management. *Jap. J. Herpetol.* 11:46-51.

Witzell, W.N. 1987. Commercial sea turtle landings, Cape Canaveral, Florida. *NOAA Tech. Rept. NMFS-53:75-78.*

Witzell, W.N. 1987. (Convener and Editor). Ecology of east Florida sea turtles: Proceedings of the Cape Canaveral, Florida, sea turtle workshop. Miami, Florida, February 26-27, 1985. *NOAA Tech. Rept. NMFS-53:80 p.*

Witzell, W.N. 1987. Selective predation on large cheloniid sea turtles by tiger sharks *Galeocerdo cuvier*. *Jap. J. Herpetol.* 12:22-29.

Witzell, W.N. 1987. Release trends in the western north Atlantic recreational billfish fishery. Pp. 283-288, In: *Catch and Release Fishing, a Decade of Experience. A National Sport Fishing Symposium. Proceedings.* Sept. 30 - Oct. 1, 1987. Humboldt State University, Arcata, CA.

Witzell, W.N. 1990. Longbill spearfish, *Tetrapturus pfluegeri*, incidentally caught by the recreational billfishermen in the western north Atlantic Ocean. *Fish. Bull., U.S.* 87:982-984.

Witzell, W.N. and E.L. Scott. 1990. Blue Marlin, *Makaira nigricans*, movements in the western north Atlantic Ocean: Results of a Cooperative Game Fish Tagging Program, 1954-88. *Mar. Fish. Rev.* 52:12-17. (Nominated for Best Paper in Marine Fisheries Review 1990).

Witzell, W.N. 1994 (1996). The origin, evolution, and demise of the U.S. sea turtle Fisheries. *Mar. Fish. Rev.* 56:8-23. (Won "Best Paper" in Marine Fisheries Review 1996).

Witzell, W.N. and A.C. Banner. 1980. The Hawksbill turtle, *Eretmochelys imbricata*, in Western Samoa. *Bull. Mar. Sci.* 30:571-579.

Witzell, W.N. 1998. The origin of the Florida sponge fishery. *Mar. Fish. Rev.* 60 (1):27-32.  
<http://spo.nwr.noaa.gov/mfr6012.pdf>

Witzell, W.N. 1999. Distribution and relative abundance of sea turtles caught incidentally by the U.S. pelagic longline fleet in the western North Atlantic ocean, 1992-1995. *Fish. Bull.* 97 (1):200-211.

<http://fishbull.noaa.gov/19witzel.pdf>

Witzell, W.N. 1999. Aquatic turtles (Testudines: Emydidae) in an urban south Florida man-made pond. Fla. Sci. 62 (3):172-174.

Witzell, W.N. 2002. Immature Atlantic loggerhead turtles (*Caretta caretta*): Suggested changes to the life history model. Herp. Rev.

Witzell, W.N., A.L. Bass, M.J. Bresette, D.A. Singewald, and J.C. Gorham. 2002. Origin of immature loggerhead turtles (*Caretta caretta*) from Hutchinson Island, Florida: Evidence from mtDNA markers. Fish. Bull. 100 (3):

Schmid, J.R. and W.N. Witzell. (1997). Age and growth of wild Kemp's ridley turtles *Lepidochelys kempii*: Cumulative results of tagging studies in Florida. Chelon. Conser. Biol. 2 (4):532-537.

Bass, A.L. and W.N. Witzell. (2000). Demographic composition of immature green turtles (*Chelonia mydas*) from the east-central Florida coast: evidence from mitochondrial DNA markers. Herpetologica 56:357-367.

Witzell, W.N., A.S. Quintero, J.R. Schmid, and M.G. Dionte. In Prep. Reproductive parameters of the Kemp's ridley sea turtle (*Lepidochelys kempii*) at Rancho Nuevo, Tamaulipas, Mexico.

Witzell, W.N. and J.R. Schmid. In Prep. Multiple recapture of an immature hybrid hawksbill turtle (*Eretmochelys imbricata*) in the Ten Thousand Islands, Southwest Florida, U.S.A.

Witzell, W.N. A.A. Geis, J.R. Schmid and T. Wibbles. In Prep. Sex ratio of immature Kemp's ridley turtles (*Lepidochelys kempii*) from southwest Florida.

#### TECHNICAL REPORTS – REVIEWS - NEWSLETTERS:

Witzell, W.N. and D.M. Allen. 1983. Summary of studies relating coastal climatological factors and commercial shrimp production, southeastern United States. In: Western Central Atlantic Fishery Commission (WECAFC) National Reports and selected papers presented at the Third Session of the Working Party on Assessment of Marine Fishery Resources. Kingston, Jamaica, 17-21 May, 1982. FAO Fish. Rept. 278 (Suppl.):111-119.

Witzell, W.N. 1989. Research requirements for management of the marine habitat. In: Proceedings of the Second Western Atlantic Turtle Symposium. NOAA Tech. Memo. NMFS-SEFSC 226:247-250.

Witzell, W.N. 1992. The incidental capture of sea turtles in commercial non-shrimping fisheries in southeastern U.S. waters. Miami Lab. Contrib. No. MIA-91/92-43, 22 p.

Witzell, W.N. 1994. The incidental capture of sea turtles by the U.S. pelagic longline fleet in the Western Atlantic Ocean. Miami lab. Contrib. No. MIA-93/94-54, 7 p.

Witzell, W.N. 1994. The U.S. Commercial sea turtle landings. NOAA Tech. Memo. NMFS SEFSC-350, 128 p.

Witzell, W.N. and W.G. Teas. 1994. The impacts of anthropogenic debris on marine turtles in the western north Atlantic Ocean. NOAA Tech. Memo. NMFS-SEFSC- 355, 21 p.

- Witzell, W.N. and J. Cramer. 1995. Estimates of sea turtle by-catch by the U.S. longline fleet in the western North Atlantic Ocean. NOAA Tech. Memo. NMFS-SEFSC-359, 14 p.
- Witzell, W.N. and A.J. McCoy. 1995. Incidental aerial sightings of sea turtles in Florida Bay, Florida 1984-1985. NOAA Tech. Memo. NMFS-SEFSC-372, 8 p.
- Witzell, W.N. and T. Azarovitz. 1996. Relative abundance and thermal and geographic distribution of sea turtles off the U.S. Atlantic coast based on aerial surveys (1963-1969). NOAA Tech. Memo. NMFS-SEFSC-381, 10 p.
- Bowen, B.W. and W.N. Witzell (editors). 1996. Proceedings of the international symposium on sea turtle genetics. NOAA Tech. Memo. NMFS-SEFSC-396, 173 p.
- Witzell, W.N. 1997. The biology of sea turtles (book review). Bull. Mar. Sci. 61:164.
- Witzell, W.N. 1997. Biology and conservation of sea turtles (book review). Bull. Mar. Sci. 61:42.
- Witzell, W.N. 1998. Long-term tag returns from juvenile Kemp's ridleys. Mar. Turt. Newsletter 79:20.  
<http://www.seaturtle.org/mtn/archives/mtn79/mtn79p20a.shtml>
- Witzell, W.N. 1998. Messages in bottles (Guest Editorial). Mar. Turt. Newsletter 80:3-5.  
<http://www.seaturtle.org/mtn/archives/mtn80/mtn80p3.shtml>